## **Listing of Claims:**

1 (currently amended): An information providing 1 apparatus for acquiring contents data representing a high quality still image from a service providing apparatus capable 3 of storing the contents data and of transmitting the contents 4 data in response to a request from a remote user terminal, and 5 for providing the contents data to the remote user terminal, 6 said information providing comprising: 7 reproducing means for reproducing the contents data; 8 picture data relaying means for relaying still picture 9 data obtained from the contents data reproduced by 10 the reproducing means; 11 moving picture coding means for producing compressed 12 moving picture data using a moving picture coding 13 <del>format and</del> having a high image quality 14 transforming from the still picture data coded using 15 a still picture coding format into said compressed 16 moving picture data coded using a moving picture 17 coding format, said still picture data being and 18 obtained from said picture data relaying means, 19 wherein said producing utilizes being performed by 20 way of a stepwise image quality complementary type 21 coding system for complementing an image quality in 22 23 a stepwise manner, and wherein said moving picture coding means is also for transmitting 24 compressed moving picture data to the 25 terminal to display a still display picture using 26 said moving picture coding format; and 27 control means for determining an area of the still 28 coded 29 picture data into the compressed moving picture data in response to a user selection of a 30

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portion of the still display picture made from the 31 remote user terminal, and for notifying the selected 32 area to the moving picture coding means. 33

Claim 2 (previously presented): An information providing 1 apparatus as claimed in claim 1, wherein 2 said control means is capable of producing a control 3 4 signal used to change the reproducing state of the reproducing means by receiving a manipulation of the 5 user terminal, and is capable of transmitting the 6 control signal to the reproducing means; and wherein 7 moving picture coding means produces compressed 8 the

moving picture data from said still picture data, 9 the content of which is sequentially changed by 10 changing a setting condition of a coding process 11 operation.

Claim 3 (previously presented): An information providing 1 apparatus as claimed in claim 1, wherein the moving picture 2 coding means also produces audio data having a designated data 3 format from audio data contained in the contents data, and multiplexing multiplexed AV data by also produces compressed moving data with the audio data, and transmits the multiplexed AV data to the user terminal.

Claim 4 (currently amended): An information providing 1 apparatus for providing data to a remotely located user 2 terminal in response to a request, comprising: 3 storing means for storing contents data including still

4 picture data; 5

reproducing means for reproducing the contents data; 6

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for relaying 7 data relaying means the still picture data originated from the contents 8 reproduced by the reproducing means; 9 moving picture coding means for producing compressed 10 moving picture data coded using a moving picture 11 coding format and having a high image quality from 12 the by transforming the still picture image data 13 coded using a still picture coding format into said 14 compressed moving picture data coded using a moving 15 picture coding format, wherein said producing 16 utilizes and by way of a stepwise image quality 17 complementary type coding system for complementing 18 an image quality in a stepwise manner, and wherein 19 said moving picture coding means is also for transmitting 20 the compressed moving picture data to the remotely 21 located user terminal for displaying a still display 22 image using said moving picture coding format; and 23 control means for determining an area of still picture 24 data coded into the compressed moving picture data 25 in response to a user selection of a portion of the 26 still display image made from the remote user 27 terminal, and for notifying the selected area to the 28 moving picture coding means. 29

Claim 5 (previously presented): An information providing 1 apparatus as claimed in claim 4, wherein said control means is also for producing a control signal 3 the reproducing state of to change 4 reproducing means by receiving a manipulation of the 5 user terminal, and is further for transmitting the 6 control signal to the reproducing means; and wherein 7 the moving picture coding means produces compressed 8 moving picture data from the still picture data, the 9

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content of which is sequentially changed by changing
a setting condition of coding process operation.

Claim 6 (previously presented): An information providing apparatus as claimed in claim 4, wherein the moving picture coding means also produces audio data having a designated data format from audio data contained in the contents data, and also produces multiplexed AV data by multiplexing the compressed moving picture data with the audio data, and also transmits the multiplexed AV data to the user terminal.

Claim 7 (currently amended): An information providing system for acquiring content data from a service providing system and for providing a communication service to a remotely located mobile terminal, wherein the content data represents a high quality still image coded using a still picture coding format, said information providing system comprising:

moving picture coding means for producing compressed moving picture data coded by transforming said still coding picture format of the content data into said compressed moving picture data coded using a moving picture coding format from the content data and using a stepwise image quality complementary coding system; and

transmitting means for transmitting the compressed moving picture data to the mobile terminal, wherein

the mobile terminal displays a still display image representing the high quality still image from the compressed moving picture data using said moving picture coding format, such that image processing of the content data is primarily conducted by the information providing system to thereby reduce a

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- processing load and/or a memory requirement on the mobile terminal.
- Claim 8 (previously presented): The system of claim 7,
- 2 wherein the mobile terminal displays the display image in
- 3 progressively more detail over some period of time.
- Claim 9 (previously presented): The system of claim 7,
- wherein the mobile terminal is a mobile terminal capable of
- 3 displaying compressed moving picture images.
- Claim 10 (previously presented): The system of claim 9,
- 2 wherein the mobile terminal is a PDA or a portable telephone.
- Claim 11 (previously presented): The system of claim 7,
- wherein the mobile terminal is a PDA or a portable telephone.
- Claim 12 (previously presented): The system of claim 7,
- 2 further comprising control means for determining an area of a
- 3 portion of the display image, wherein the portion is chosen by
- 4 a user manipulation at the mobile terminal, and wherein the
- 5 control means provides the determined area to the moving
- 6 picture coding means.
- 1 Claim 13 (currently amended): An information providing
  - system for acquiring content data from a service providing
- 3 system and for providing a communication service to a remotely
- 4 located mobile terminal capable of displaying compressed
- 5 moving picture data and connected to a communication network,
- 6 wherein the content data represents a high quality still image
- 7 coded using a still picture coding format, said information
- 8 providing system comprising:

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moving picture coding means for producing compressed 9 moving picture data coded using a moving picture 10 coding format from by transforming the content data 11 coded using the still picture coding format into the 12 moving picture data coded using a moving picture 13 coding format, and using a stepwise image quality 14 complementary coding system; and 15 transmitting means for transmitting the compressed moving 16 picture data to the mobile terminal 17 communication network such that image processing is 18 conducted at the information providing system to 19 thereby reduce a processing load and/or a memory 20 requirement on the mobile terminal, and wherein 21 mobile terminal displays a still display image the 22 representing the high quality still image from the 23 compressed moving picture data using said moving 24 picture coding format. 25

- 1 Claim 14 (previously presented): The system of claim 13, 2 wherein the mobile terminal is a PDA or a portable telephone.
- Claim 15 (previously presented): The system of claim 13, wherein the mobile terminal displays the still display image in progressively more detail over some period of time.
- Claim 16 (previously presented): The system of claim 13, further including control means for determining an area of a portion of the display image, wherein the portion is chosen by a user manipulation at the mobile terminal, and wherein the control means provides the determined area to the moving picture coding means, which then produces new compressed moving picture data from the content data using the stepwise image quality complementary coding system, wherein the new

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9 compressed moving picture data corresponds to the chosen 10 portion of the display image for displaying the chosen portion 11 on the mobile device in a larger fashion.

## Claim 17 (currently amended): A system comprising: 1 a mobile terminal including telephone capability for 2 connecting to a telephone network and capable of displaying compressed moving picture data; 4 a service providing system for providing content data 5 representing a high quality still image coded using 6 a still picture coding format as a service; and 7 an information providing system for acquiring the content 8 data from the service providing system and for 9 providing a communication service to the mobile 10 terminal. said information providing 11 system including: 12 moving picture coding means for producing compressed 13 moving picture data coded using a 14 picture coding format by transforming from the 15 content data coded using the still picture 16 coding format into the moving picture coding 17 data coded using the moving picture coding 18 and for providing compressed moving format, 19 picture data to the mobile terminal for display 20 on the mobile terminal, 21 transmitting means for transmitting the compressed 22 moving picture data to the mobile terminal, 23 wherein the mobile terminal displays a still 24 display image representing the high quality 25 still image from the compressed moving picture 26 data using said moving picture coding format, 27 control means for determining an area of the still 28 picture data coded into the compressed moving 29

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30	picture data in response to a user selection of
31	a portion of the still display image from the
32	user terminal, and for notifying the selected
33	area to the moving picture coding means,
34	wherein
the	moving picture coding means then produces new
36	compressed moving picture data from the content
37	data corresponding to the user selected portion
38	of the display image for displaying the
39	selected portion on the mobile terminal in a
40	larger fashion as a zoomed still image; wherein
the	information providing system operates such that
42	a primary portion of image processing of the
43	content data is conducted at the information
44	providing system to thereby reduce a processing
45	load and/or a memory requirement on the mobile
46	terminal.

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